



Acute Care Needs Assessment

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vizientTM

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Background & Overview



Background & Methodology

CHLB is not an essential provider of inpatient general acute care services and if it were no longer in operation, there would be minimal impact on the availability and accessibility of inpatient healthcare services to the community. However, CHLB is an important operator of emergency and behavioral health services and closure of these services could moderately impact patient access.

The analysis considers the following components:

- Inpatient and emergency demand and utilization rates
- Demographics
- Volume analysis and forecast
- Current competition, market share, and strategies for inpatient services
- Supply of area inpatient healthcare services versus the projected demand
- Area physicians and medical groups
- Healthcare trends that may affect utilization

Community Hospital of Long Beach

Community Hospital of Long Beach (CHLB) is a 158 licensed bed, general acute care hospital located at 1720 Termino Avenue in Long Beach. Currently, CHLB provides medical/surgical services, emergency services, cardiology services, psychiatric services, respiratory services, and rehabilitation services to the residents of the Long Beach community.

BED DISTRIBUTION 2017	
Bed Type	Number of Beds
Medical/Surgical	100
Intensive Care	20
Coronary Care	10
Acute Psychiatric (D/P)	28
Total Licensed Beds	158

Source: CHLB

KEY STATISTICS: FY 2014-2016			
	2014	2015	2016
Inpatient Discharges	4,584	5,502	5,584
Licensed Beds	158	158	158
Patient Days	19,607	23,235	23,905
Average Daily Census	54	64	65
Average Daily Census - Med/Surg	24	32	35
Average Daily Census - ICU/CCU	6	7	8
Average Daily Census - Psych	24	24	23
Occupancy	33.9%	40.3%	41.3%
Average Length of Stay	4.3	4.2	4.3
Emergency Services Visits ¹	23,872	26,386	27,206

Source: OSHPD Annual Disclosure Reports, FY 2014-2016

¹ OSHPD Alerts Annual Utilization Reports



Executive Summary



Executive Summary & Key Findings

Acute Care Findings:

- The analysis of the seven area hospitals shows a low combined occupancy rate of only 56% of licensed inpatient beds
- Due to the large number of available beds, CHLB's service area is "over-bedded" for acute care services. If CHLB's acute care beds were no longer in use, there would be minimal impact on the overall occupancy of hospital beds in the area
- It is likely that the need for acute care beds will decrease further due to the ongoing shift from inpatient care settings to outpatient care settings, continued reductions in the average length of stay (ALOS), and population health initiatives that are meant to improve the management of patients

Emergency Services Findings:

- While many of the area hospitals' emergency departments have limited available capacity, there are a sufficient number of urgent care centers and FQHCs in the area that could serve lower acuity patients in place of the emergency department. Additionally, a few of the area hospitals are reported to be planning emergency department expansions in order to alleviate capacity constraints
- The use of appropriate urgent care services, the development of a psychiatric urgent care center in the Long Beach area, and the expansion of other hospitals' emergency departments could mitigate the negative impact of a potential closure of CHLB's emergency department

Behavioral Health Findings:

- The analysis of area behavioral health providers shows a high combined occupancy rate of nearly 90%
- CHLB remains an important provider of behavioral health services to area residents, especially for Medi-Cal patients who comprise nearly 60% of CHLB's behavioral health payer mix

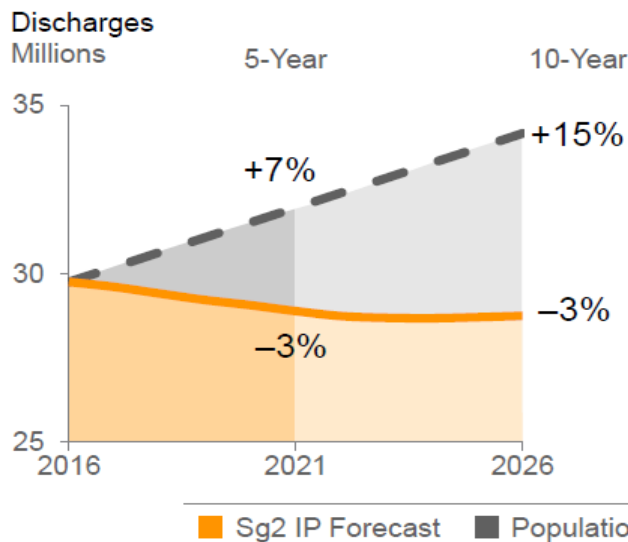
Healthcare Utilization Trends



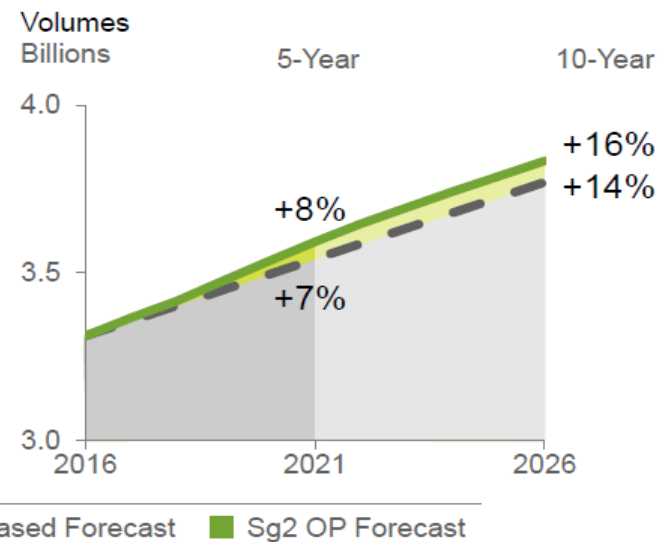
Patient Utilization Trends

- Sg2, a Vizient business, predicts a 3% decrease in inpatient hospital discharges nationwide over the next ten years and a 16% increase in outpatient volume nationwide over the next ten years. This forecast takes into consideration factors such as population, epidemiology, economics, policy, innovation, and technology to understand patient demand for healthcare services

Adult Inpatient Forecast
US Market, 2016–2026



Adult Outpatient Forecast
US Market, 2016–2026



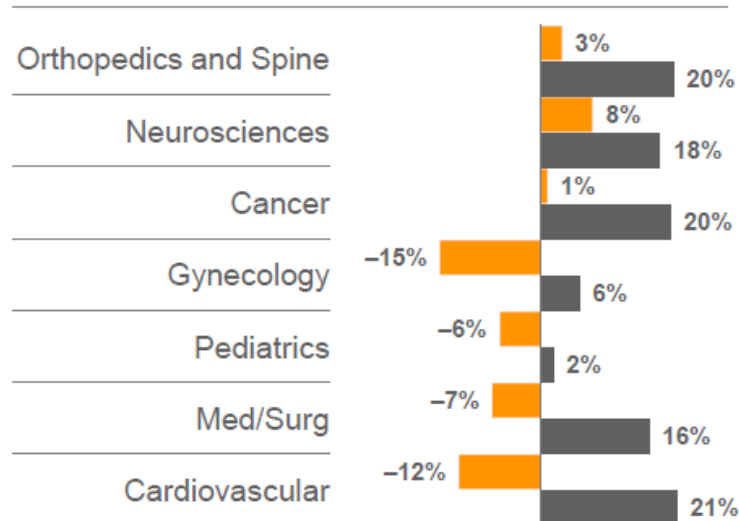
Note: Forecast excludes 0–17 age group.

Sources: Impact of Change® v16.0; HCUP National Inpatient Sample (NIS). Healthcare Cost and Utilization Project (HCUP). 2013. Agency for Healthcare Research and Quality, Rockville, MD; OptumInsight, 2014; The following 2014 CMS Limited Data Sets (LDS): Carrier, Denominator, Home Health Agency, Hospice, Outpatient, Skilled Nursing Facility; The Nielsen Company, LLC, 2016; Sg2 Analysis, 2016.

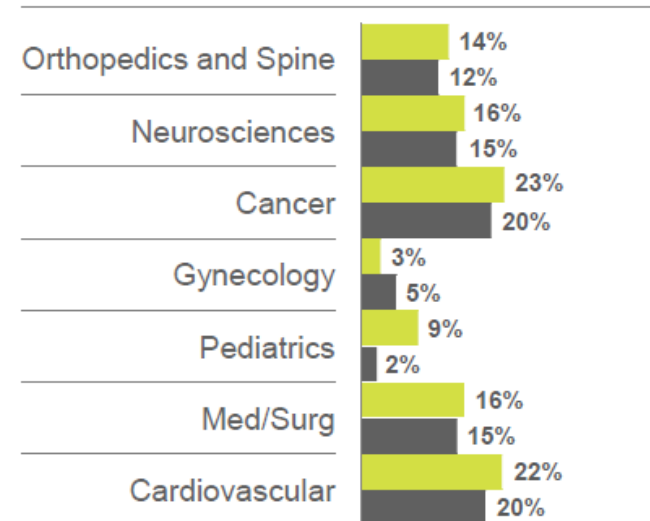
Service Line Trends

- Patient demand for both medical/surgical services and cardiovascular services are forecast to decrease over the next ten years (7% and 12%, respectively)

Inpatient Service Line Growth Rates
US Market, 2016–2026



Outpatient Service Line Growth Rates
US Market, 2016–2026



■ Sg2 IP Forecast ■ Population-Based Forecast ■ Sg2 OP Forecast

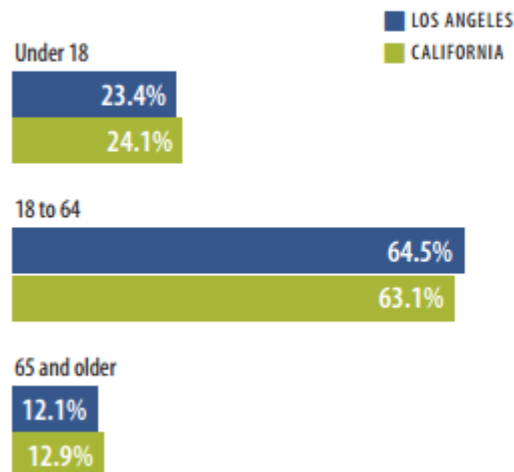
Note: All service lines exclude 0–17 age group except Pediatrics, which excludes 18+ age group. Cardiovascular includes cardiology and vascular. Med/Surg includes allergy and immunology, burns, dermatology, endocrinology, ENT, gastroenterology, medicine and surgery, infectious diseases, nephrology, ophthalmology, pulmonology, rheumatology, and urology. Neurosciences includes Brain/CNS Cancer CARE Family. CNS = central nervous system; ENT = ear, nose and throat. Sources: Impact of Change® v16.0; HCUP National Inpatient Sample (NIS). Healthcare Cost and Utilization Project (HCUP). 2013. Agency for Healthcare Research and Quality, Rockville, MD; OptumInsight, 2014; The following 2014 CMS Limited Data Sets (LDS): Carrier, Denominator, Home Health Agency, Hospice, Outpatient, Skilled Nursing Facility; The Nielsen Company, LLC, 2016; Sg2 Analysis, 2016.

Bed Availability Trends in Los Angeles County

According to the California Health Care Foundation:

“The market remains over-bedded. Los Angeles County stands out among other regions of the state for its large supply of hospital beds relative to the size of the population, even despite hospital closures over the last few years. The county has approximately 12% more beds than average for its population size.”

Age of Population, 2014



Hospitals, 2014

	Los Angeles	California
Acute care beds per 100,000 (community hospitals)	184.6	181.8
Occupancy rate (licensed acute care beds)	55.3%	53.0%
Average length of stay (in days)	4.4	4.4

Health Professionals

Per 100,000 Population, 2011

	Los Angeles	California
Physicians	201	194
Primary care physicians	62	64
Specialists	139	130

Economic Indicators, 2014

	Los Angeles	California
Below 100% FPL	21.0%	18.4%
Below 200% FPL	45.1%	40.7%
Unemployment rate	8.3%	7.5%

Source: California Health Care Almanac, California Regional Markets: Los Angeles, California Health Care Foundation

Service Area Profile & Analysis



Service Area Definition

Including Behavioral Health

Based upon CHLB's 2014 inpatient discharges, CHLB's service area is comprised of eight ZIP Codes from which 56% of its inpatient discharges originated. Approximately 31% of CHLB's discharges originated from the top two ZIP Codes located in Long Beach. In 2014, CHLB's market share in the service area was approximately 10% based on total area discharges.

- CHLB's market share is greater than 10% in only five of the eight ZIP Codes
- A number of large hospitals located in the greater Long Beach area capture a significant portion of market share:
 - St. Mary Medical Center (302 beds)
 - Long Beach Memorial Medical Center (458 beds)
 - Earl and Lorraine Miller Children's Hospital (371 beds)
 - College Medical Center (221 beds)
 - Los Alamitos Medical Center (167 beds)
 - Lakewood Regional Medical Center (172 beds)
- While nearly 44% of CHLB's discharges are from ZIP Codes located outside of the service area, CHLB's market share in many of these ZIP Codes is less than 2%

SERVICE AREA PATIENT ORIGIN MARKET SHARE BY ZIP CODE: 2014						
ZIP Codes	Community	Total Discharges	% of Discharges	Cum % of Discharges	Total Area Discharges	Market Share
90804	Long Beach	695	14.0%	14.0%	3,959	17.6%
90815	Long Beach	490	9.9%	23.9%	3,722	13.2%
90813	Long Beach	367	7.4%	31.4%	7,670	4.8%
90803	Long Beach	348	7.0%	38.4%	2,711	12.8%
90802	Long Beach	314	6.3%	44.7%	4,816	6.5%
90808	Long Beach	244	4.9%	49.7%	3,586	6.8%
90814	Long Beach	219	4.4%	54.1%	1,547	14.2%
90755	Signal Hill	110	2.2%	56.3%	1,085	10.1%
Subtotal		2,787	56.3%		29,096	9.6%
Other ZIPs		2,161	43.7%			
Total		4,948	100.0%			

Note: Excludes normal newborns. Includes acute care and behavioral health

Source: OSHPD Patient Discharge Database

Service Area Definition

Excluding Behavioral Health

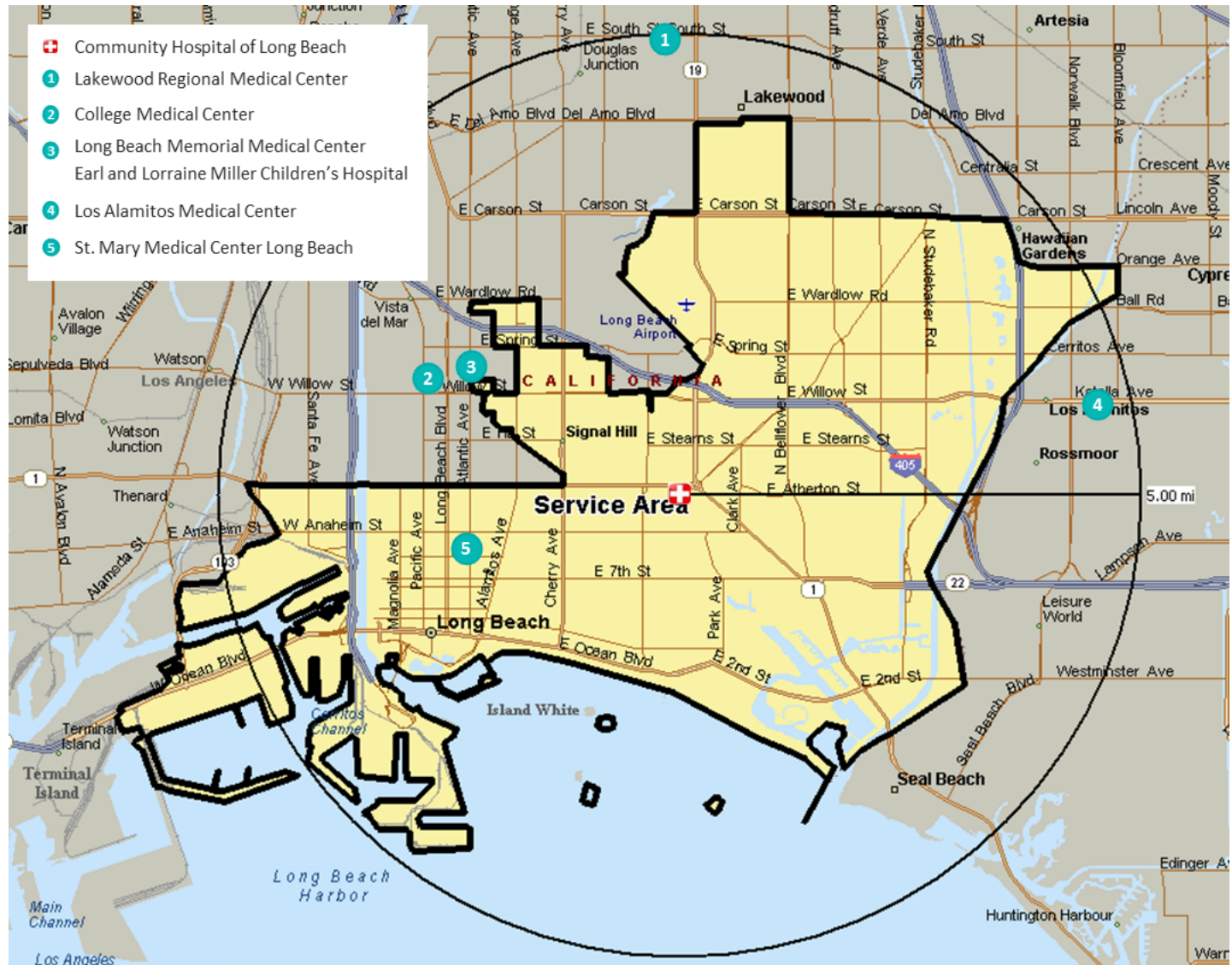
CHLB's service area was defined based on its 2014 acute care discharges. This service area, from which 72% of CHLB's inpatient acute care discharges originated, is comprised of the same eight ZIP Codes that are located in Long Beach and Signal Hill. Excluding behavioral health discharges, CHLB's overall market share in the service area drops to 8%. CHLB's acute care market share is greater than 10% in only four of the eight ZIP Codes.

SERVICE AREA PATIENT ORIGIN ACUTE CARE MARKET SHARE BY ZIP CODE: 2014						
ZIP Codes	Community	Total Discharges	% of Discharges	Cum % of Discharges	Total Area Discharges	Market Share
90804	Long Beach	539	19.0%	19.0%	3,504	15.4%
90815	Long Beach	413	14.6%	33.6%	3,447	12.0%
90803	Long Beach	287	10.1%	43.8%	2,511	11.4%
90808	Long Beach	194	6.9%	50.6%	3,350	5.8%
90813	Long Beach	184	6.5%	57.1%	6,559	2.8%
90814	Long Beach	172	6.1%	63.2%	1,415	12.2%
90802	Long Beach	168	5.9%	69.1%	4,035	4.2%
90755	Signal Hill	81	2.9%	72.0%	1,008	8.0%
Subtotal		2,038	72.0%		25,829	7.9%
Other ZIPs		794	28.0%			
Total		2,832	100.0%			

Note: Excludes normal newborns and behavioral health

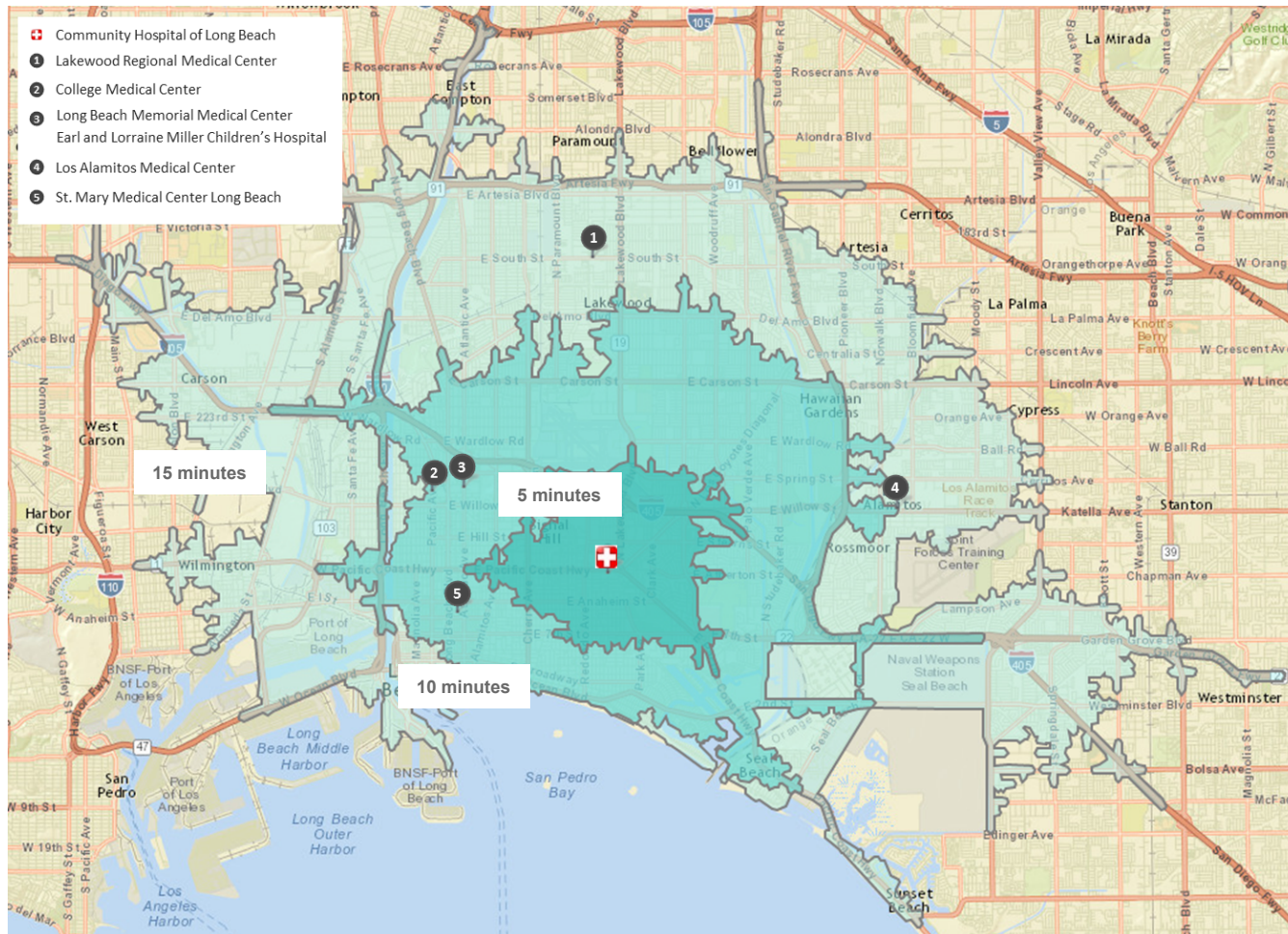
Source: OSHPD Patient Discharge Database

Service Area Map



Service Area Travel Times

- All of the area hospitals are located within 10-15 minutes of CHLB



Service Area Demographic Trends

SERVICE AREA DEMOGRAPHIC TRENDS				
	2010	2016	2021	% Change 2016 to 2021
Service Area				
Total Population	278,866	288,182	297,460	6.7%
Total Households	110,509	113,143	116,334	5.3%
Los Angeles County				
Total Population	9,818,605	10,147,765	10,479,488	6.7%
Total Households	3,241,204	3,321,508	3,416,966	5.4%
California				
Total Population	37,253,956	38,986,171	40,718,391	9.3%
Total Households	12,577,498	13,029,292	13,549,437	7.7%
United States				
Total Population	308,745,538	323,580,626	337,326,118	9.3%
Total Households	116,716,292	121,786,233	126,694,268	8.5%

Source: Esri

- **CHLB's service area is expected to grow at a rate of nearly 7% over the next five years, adding approximately 9,000 people**
- **The rate of population growth is similar to that of Los Angeles County, but less than the expected rates for the State of California and nationwide**
- **At the current California average of 1.82 beds per 1,000 people, there is a demand for approximately 524 beds in the service area based on the population of 288,182**

SERVICE AREA DEMOGRAPHIC TRENDS			
Service Area	2016	2021	% Change 2016 to 2021
Total Population	288,182	297,460	3.2%
Total Households	113,143	116,334	2.8%
Population by Sex			
Male	142,318	146,998	3.3%
Female	145,864	150,462	3.2%
Population by Race/Ethnicity			
White	54.1%	53.1%	1.3%
Black	9.7%	9.3%	-1.0%
American Indian	0.7%	0.7%	3.2%
Asian	11.8%	12.6%	10.2%
Pacific Islander	0.5%	0.5%	3.2%
Some Other Race	17.2%	17.6%	5.6%
Two or More Races	5.9%	6.2%	8.5%
Hispanic Origin	36.6%	38.0%	7.2%
Population by Age			
0-4	6.1%	6.2%	4.9%
5-9	5.8%	5.5%	-2.1%
10-14	5.6%	5.4%	-0.5%
15-24	14.8%	13.3%	-7.2%
25-34	17.2%	18.4%	10.4%
35-44	13.9%	14.0%	4.0%
45-54	13.5%	12.6%	-3.7%
55-64	11.4%	11.6%	5.0%
65-74	7.0%	8.0%	18.0%
75-84	3.1%	3.6%	19.9%
85+	1.6%	1.5%	-3.2%
Households by Income			
<\$15,000	13.2%	13.9%	8.7%
\$15,000 - \$24,999	9.8%	8.6%	-9.4%
\$25,000 - \$34,999	9.4%	8.4%	-7.8%
\$35,000 - \$49,999	12.7%	12.4%	0.8%
\$50,000 - \$74,999	15.4%	12.4%	-16.9%
\$75,000 - \$99,999	11.6%	12.2%	8.6%
\$100,000 - \$149,999	14.2%	16.5%	19.9%
\$150,000 - \$199,999	6.7%	7.8%	20.2%
\$200,000+	7.0%	7.8%	15.0%
Average Household Income	\$83,477	\$90,827	8.8%

Source: Esri

Inpatient Volume & Occupancy

- Between FY 2012 and FY 2016, the occupancy rate at the area hospitals increased slightly to an overall rate of approximately 56%. This means that, on average, area hospitals had approximately 800 licensed beds that were vacant and available for additional patients
- In FY 2016, four of the seven area hospitals reported occupancy rates of less than 60%, indicating that there is availability of hospital beds to serve additional patients

AREA HOSPITAL UTILIZATION: FY 2012-2016								
Hospital	FY 2012				FY 2016			
	Licensed Beds	Patient Days	Discharges	Occupancy	Licensed Beds	Patient Days	Discharges	Occupancy
Community Hospital of Long Beach	158	17,795	4,061	30.8%	158	23,905	5,584	41.3%
St. Mary Medical Center Long Beach	302	50,537	11,205	45.7%	302	54,433	11,153	49.2%
Long Beach Memorial Medical Center	462	104,520	22,517	61.8%	458	103,809	20,401	61.9%
Earl and Lorraine Miller Children's Hospital	383	77,818	14,536	55.5%	355	72,202	15,599	55.6%
College Medical Center ¹	184	38,454	7,571	57.1%	221	38,275	7,428	47.3%
Los Alamitos Medical Center ¹	167	42,760	9,756	70.0%	167	44,934	9,477	73.5%
Lakewood Regional Medical Center ¹	172	35,521	8,191	56.4%	172	39,540	8,086	62.8%
Total	1,828	367,405	77,837	54.9%	1,833	377,098	77,728	56.2%

Source: OSHPD Annual Disclosure Reports, FY 2012-2016

¹ FY 2015. FY 2016 data unavailable

Inpatient Volume & Occupancy (Cont.)

- The area hospitals' licensed medical/surgical beds and ICU/CCU beds operate well below capacity. However, the area hospitals' licensed psychiatric beds operate at a much higher capacity (87.6%)

INPATIENT VOLUME & OCCUPANCY: FY 2016							
Hospital	Licensed Beds	Patient Days	Discharges	% Occupied	Med/Surg (Occupancy)	ICU/CCU (Occupancy)	Psych (Occupancy)*
Community Hospital of Long Beach	158	23,905	5,584	41.3%	34.9%	25.3%	81.4%
St. Mary Medical Center Long Beach	302	54,433	11,153	49.2%	59.9%	38.6%	-
Long Beach Memorial Medical Center	458	103,809	20,401	61.9%	72.6%	75.2%	-
Earl and Lorraine Miller Children's Hospital	355	72,202	15,599	55.6%	42.2%	42.5%	-
College Medical Center ¹	221	38,275	7,428	47.4%	41.0%	24.8%	88.4%
Los Alamitos Medical Center ¹	167	44,934	9,477	73.7%	67.2%	99.4%	90.5%
Lakewood Regional Medical Center ¹	172	39,540	8,086	63.0%	59.2%	85.6%	-
Total	1,833	377,098	77,728	56.2%	56.5%	56.9%	87.6%

Source: OSHPD Annual Disclosure Reports, FY 2016

¹ FY 2015. FY 2016 data unavailable

* FY 2016 for all hospitals

Emergency Department Capacity

- CHLB's emergency department was operating at 65% of its 21-bed capacity in 2016*
- Overall, the area hospitals' emergency departments were operating at 92% capacity in 2016
- Based on the 2016 data, without CHLB's 21 emergency treatment stations, the area hospitals' emergency departments would be over capacity at 107%. However, over half of the 279,300 visits are low acuity and these patients could be seen in other settings, such as at urgent care centers, FQHCs, and retail-based clinics at pharmacies
 - If 25% of the low acuity visits were seen in other care settings, the area hospitals' emergency departments would continue to operate at 92% capacity
- Long Beach Memorial Medical Center is adding 8 observation bays to its emergency department to improve emergency throughput. In addition, a few other area hospitals are reported to be planning emergency department expansions to alleviate capacity constraints

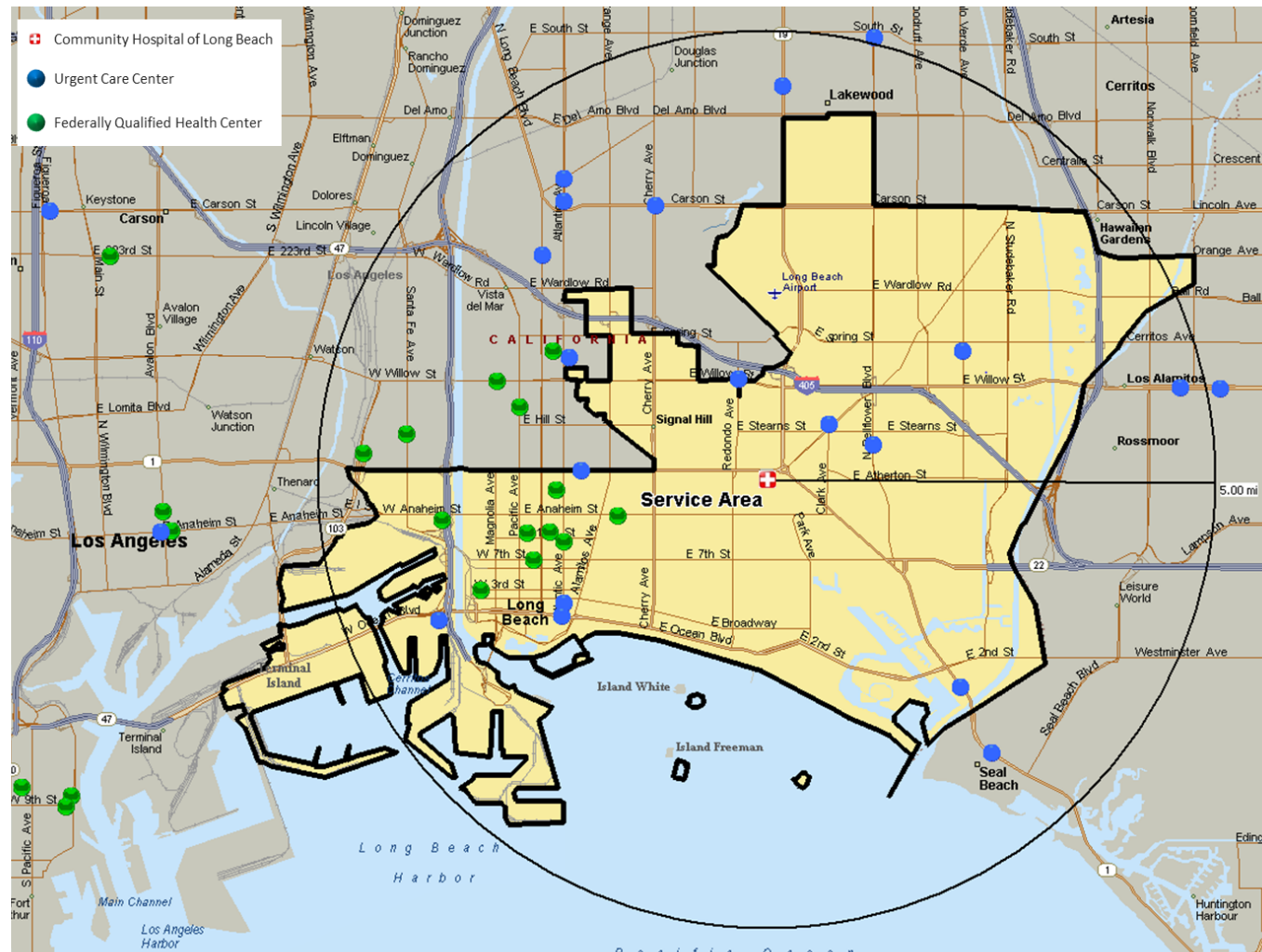
EMERGENCY DEPARTMENT CAPACITY: 2016						
Hospital	Miles from Hospital	ER Level	Stations	Total Visits	Capacity	Remaining Capacity
Community Hospital of Long Beach	-	Basic	21	27,206	42,000	14,794
St. Mary Medical Center Long Beach	2.9	Basic	26	54,279	52,000	(2,279)
Long Beach Memorial Medical Center	3.7	Basic	64	102,435	128,000	25,565
Earl and Lorraine Miller Children's Hospital	3.7	-	-	-	-	-
College Medical Center	4.0	Basic	7	14,948	14,000	(948)
Los Alamitos Medical Center	7.0	Basic	20	31,585	40,000	8,415
Lakewood Regional Medical Center	5.7	Basic	14	48,847	28,000	(20,847)
Total			152	279,300	304,000	24,700

Source: OSHPD Alerts Annual Utilization Reports, 2016

* Based on the American College of Emergency Physicians' benchmark of 2,000 visits per emergency station/bed guideline

Area Urgent Cares & FQHCs

- There are numerous urgent care centers and FQHCs in the service area and within a five-mile radius of CHLB
- The City of Long Beach Planning Commission is considering approval for a behavioral health urgent care center that would be equipped for up to six adolescents and 12 adults
- These providers are equipped to treat lower acuity patients who would otherwise contribute to the over-utilization of area emergency departments



Source: Health Resources & Services Administration, American Academy of Urgent Care Medicine

Market Share by ZIP Code

- Hospitals tend to have the greatest market share in the ZIP Codes that are closest in proximity
- While CHLB has the greatest market share (17.6%) in the ZIP Code in which it is located (90804), it only has 9.6% of the overall service area market share
- Long Beach Memorial Medical Center (19.0%) and St. Mary Medical Center (18.8%) are the service area market share leaders

SERVICE AREA MARKET SHARE BY ZIP CODE: 2014

ZIP Code	Community	Total Discharges	Long Beach Memorial Medical Center	St. Mary Medical Center - Long Beach	Earl and Lorraine Miller Children's Hospital	Community Hospital of Long Beach	Los Alamitos Medical Center	College Medical Center	Kaiser Foundation Hospital - South Bay	Kaiser Foundation Hospital - Downey	All Others	Total
90813	Long Beach	7,670	14.2%	35.4%	12.5%	4.8%	0.7%	7.5%	2.1%	0.6%	22.2%	100.0%
90802	Long Beach	4,816	14.6%	26.6%	8.1%	6.5%	2.5%	7.1%	4.0%	1.0%	29.5%	100.0%
90804	Long Beach	3,959	15.6%	16.7%	12.7%	17.6%	2.3%	3.5%	4.2%	1.5%	25.9%	100.0%
90815	Long Beach	3,722	24.8%	4.0%	9.4%	13.2%	10.6%	1.7%	3.4%	4.4%	28.5%	100.0%
90808	Long Beach	3,586	24.3%	3.9%	10.3%	6.8%	15.7%	0.7%	2.3%	7.3%	28.8%	100.0%
90803	Long Beach	2,711	26.3%	8.7%	9.0%	12.8%	7.1%	0.8%	3.7%	2.8%	28.8%	100.0%
90814	Long Beach	1,547	19.3%	14.5%	12.4%	14.2%	5.4%	1.9%	5.5%	1.3%	25.7%	100.0%
90755	Signal Hill	1,085	28.8%	7.0%	12.4%	10.1%	2.9%	1.8%	7.4%	3.8%	25.7%	100.0%
			19.0%	18.8%	10.8%	9.6%	5.3%	4.2%	3.4%	2.4%	26.5%	100.0%
Grand Total			29,096	5,524	5,484	3,140	2,787	1,533	1,217	1,001	7,699	

Note: Excludes normal newborns

Source: OSHPD Patient Discharge Database

Market Share by Service Line

SERVICE AREA MARKET SHARE BY SERVICE LINE: 2014										
Service Line	Total Discharges	Long Beach Memorial Medical Center	St. Mary Medical Center - Long Beach	Earl And Loraine Miller Childrens Hospital	Community Hospital of Long Beach	Los Alamitos Medical Center	College Medical Center	Kaiser Foundation Hospital - South Bay	Kaiser Foundation Hospital - Downey	All Others
General Medicine	8,668	19.9%	24.0%	5.2%	13.2%	5.3%	3.2%	3.4%	2.7%	23.2%
Obstetrics	4,077	1.6%	25.2%	41.6%	0.4%	4.9%	1.6%	6.6%	2.4%	15.6%
Behavioral Health	3,267	1.6%	3.9%	0.2%	22.9%	2.5%	20.4%	0.2%	0.1%	48.1%
Cardiac Services	2,819	28.3%	22.9%	0.4%	13.7%	5.2%	2.7%	2.1%	2.2%	22.6%
General Surgery	1,963	29.8%	13.4%	5.3%	5.8%	6.0%	0.8%	5.7%	3.0%	30.3%
Orthopedics	1,668	27.9%	10.6%	4.6%	5.8%	10.6%	1.2%	4.1%	4.9%	30.5%
Neurology	1,323	26.7%	24.2%	4.1%	9.5%	6.7%	2.7%	2.6%	2.3%	21.2%
Neonatology	1,086	0.0%	16.3%	49.8%	0.0%	3.5%	0.4%	7.3%	5.6%	17.1%
Oncology/Hematology	942	35.9%	12.6%	6.8%	6.6%	4.8%	2.1%	2.4%	1.7%	27.1%
Spine	536	42.4%	10.1%	1.1%	1.9%	5.2%	0.0%	0.4%	2.4%	36.6%
Gynecology	471	41.2%	9.3%	0.8%	1.9%	7.9%	1.5%	4.5%	1.3%	31.6%
Other	454	31.5%	24.4%	7.0%	4.4%	4.0%	1.5%	1.1%	1.8%	24.2%
Vascular Services	442	38.7%	12.9%	0.2%	4.5%	6.1%	2.5%	2.7%	2.7%	29.6%
ENT	400	29.8%	16.3%	18.3%	5.8%	3.3%	0.8%	1.3%	1.3%	23.5%
Rehabilitation	398	31.7%	40.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	27.6%
Urology	346	26.6%	8.7%	3.2%	3.8%	13.6%	1.7%	1.7%	4.6%	36.1%
Neurosurgery	151	38.4%	11.9%	3.3%	0.0%	4.6%	0.0%	1.3%	1.3%	39.1%
All Other	85	18.8%	10.6%	4.7%	3.5%	3.5%	1.2%	3.5%	1.2%	52.9%
Total Percentage		19.0%	18.8%	10.8%	9.6%	5.3%	4.2%	3.4%	2.4%	26.5%
Grand Total	29,096	5,524	5,484	3,140	2,787	1,533	1,217	1,001	711	7,699

Source: OSHPD Patient Discharge Database

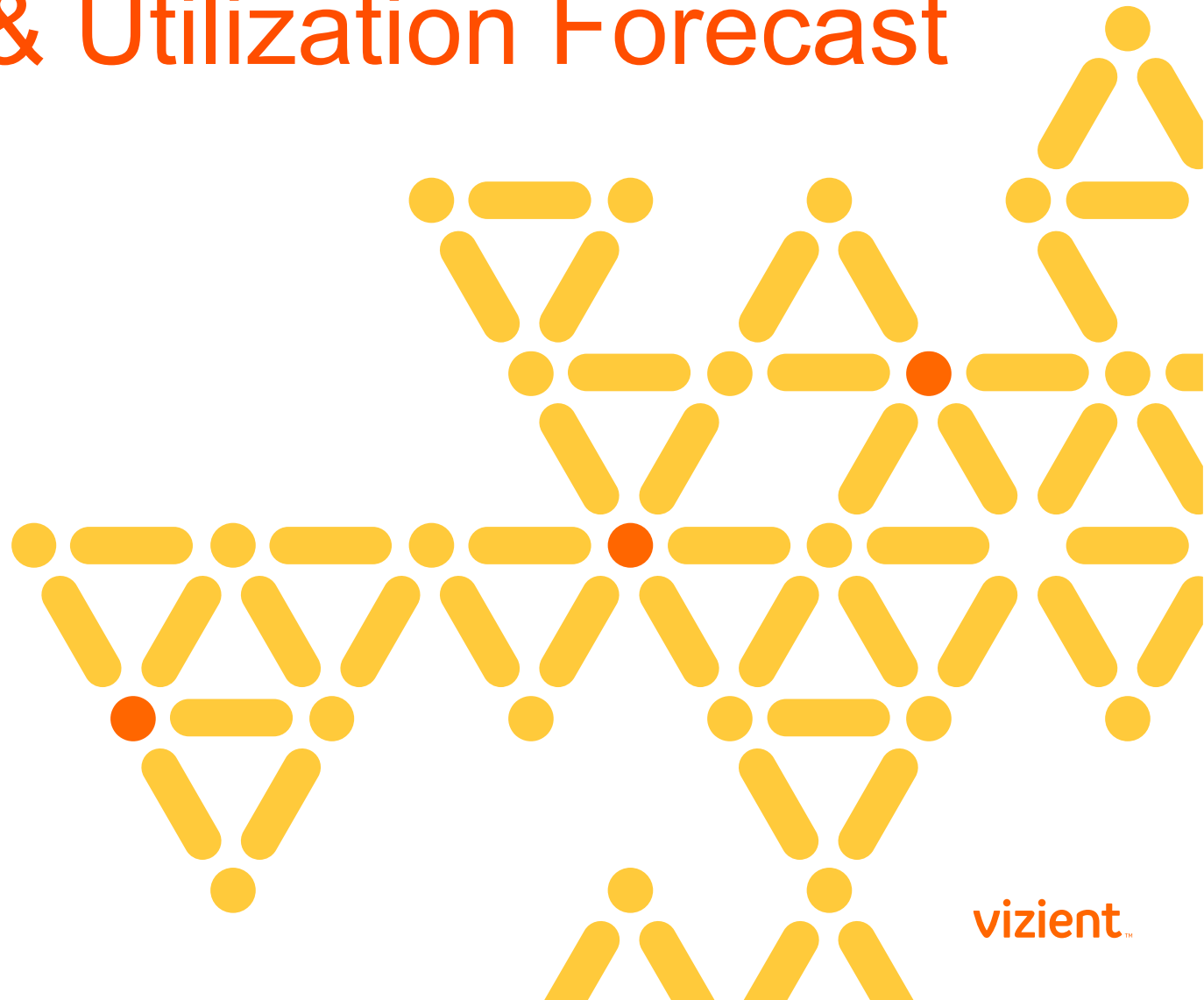
Note: Excludes normal newborns

- As a major regional provider of healthcare services, Long Beach Memorial Medical Center is the market share leader in 12 of 16 service lines
- CHLB is the service line leader in only one service line, behavioral health (22.9%)
- CHLB has low market share in all other specialty services (<10%) except general medicine and cardiac services

CHLB Medical Staff

- **No medical groups are dependent on CHLB**
- **The majority of CHLB's medical/surgical physicians have privileges at other area hospitals, including Long Beach Memorial Medical Center**
- **CHLB's emergency department is covered by the same emergency department group that staffs Long Beach Memorial Medical Center's emergency department**
- **CHLB is separately contracted with payers and has its own Medicare and Medi-Cal provider numbers**

Volume & Utilization Forecast



Comparative Hospital Bed Needs

- A range of the number of hospital beds necessary to serve the service area residents can be determined by applying different estimates of hospital bed to population ratios as shown below:

Geographic Area	Beds Per 1,000 People (2015)
United States	2.40
California	1.82
Los Angeles County	1.85

Source: AHA Annual Survey

- The number of available beds in Los Angeles County is higher than the statewide average. Applying the Los Angeles County ratio of 1.85 beds per 1,000 people to the service area shows a need for only 550 beds in 2021

SERVICE AREA COMPARATIVE BED NEEDS ANALYSIS				
Year	Population (1,000s)	Beds Needed - US Rate (2.40 per 1,000)	Beds Needed - CA Rate (1.82 per 1,000 people)	Beds Needed - LA County Rate (1.85 per 1,000)
2015	288.2	692	524	533
2021	297.5	714	541	550

Inpatient Utilization Rates

- The service area population currently utilizes approximately 168,700 patients days. This represents an average daily census of 462 patients
- Because hospitals have daily and seasonal variations in demand and the population will continue to grow, hospitals are often planned based upon an average occupancy of about 70%. Adjusting for these factors means that 660 beds are needed for the average daily census of 462 patients
- By 2021, with population growth and based on current use rates, the service area would utilize 25 more beds, indicating that there is no projected future need to add additional beds

Inpatient Utilization	State of California			Los Angeles County			Service Area		
	2013	2014	2015	2013	2014	2015	2013	2014	2015
Population Estimates	38,120,064	38,408,766	38,697,469	9,983,185	10,038,045	10,092,905	283,524	285,077	286,629
Patient Days per 1,000 People	425.7	417.4	422.8	508.4	500.7	512.3	471.7	530.4	588.5
Inpatient Admissions per 1,000 People	77.8	77.2	77.9	90.3	89.4	91.4	102.8	102.1	101.3
Total Patient Days	16,227,159	16,031,428	16,359,601	5,075,053	5,025,629	5,170,679	133,730	151,201	168,672

Source: OSHPD Hospital Annual Utilization Data, 2013-2015

Year	Population (1,000s)	Patient Days	Patient Days Per 1,000	Average Daily Census	Beds Needed (Based Upon 70% Occupancy)
2015	288.2	168,672	588.5	462	660
2021	297.5	175,055	588.5	480	685

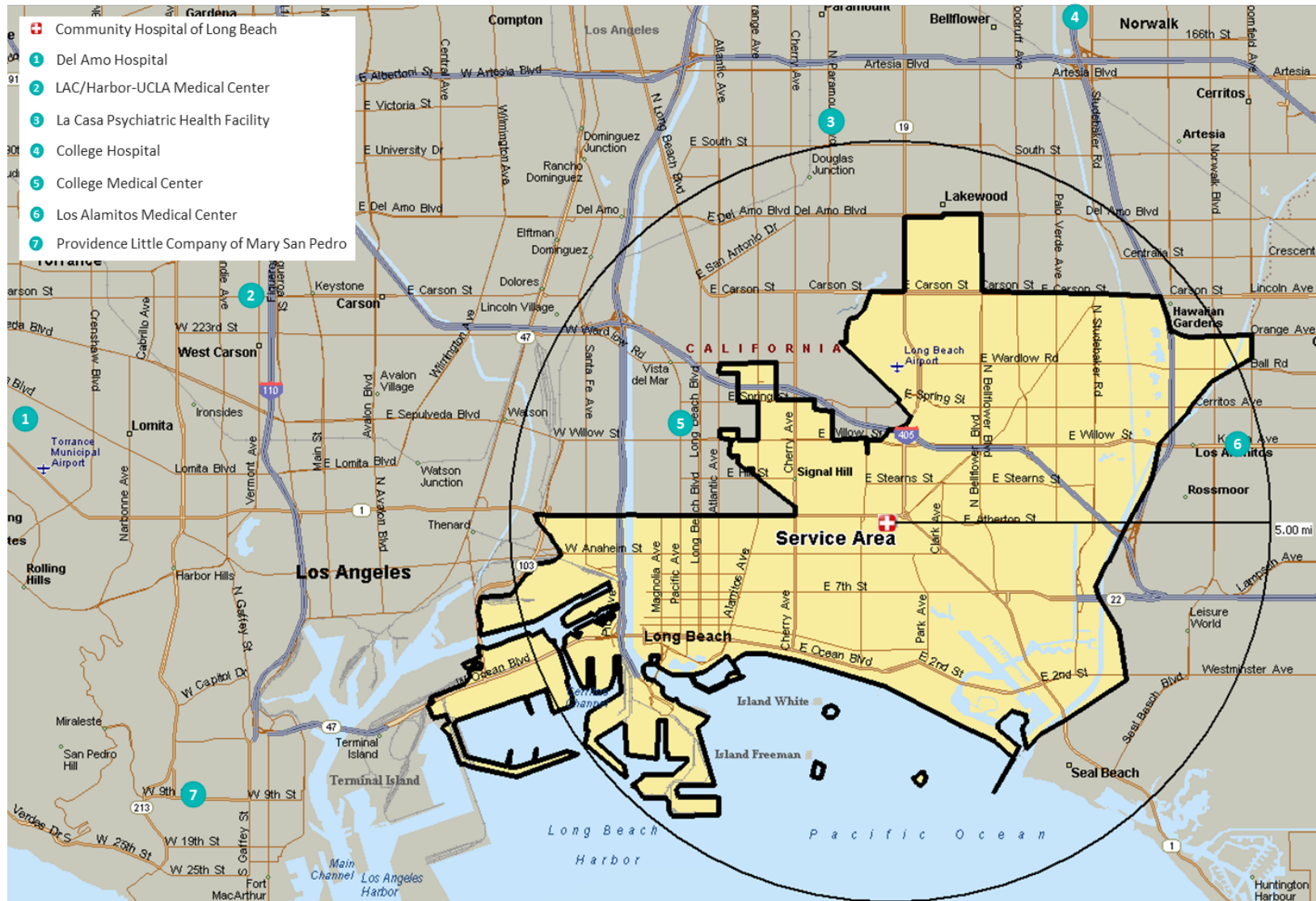
Source: OSHPD Financial Pivot Tables & Alerts Annual Utilization Reports

Note: 2021 patient days and census data based on 2015 use rates

Behavioral Health Analysis



Service Area Behavioral Health Providers



Hospital Behavioral Health Market Share

- CHLB (22.9%) reported the largest overall behavioral health market share
- Hospitals located outside of Long Beach captured nearly 50% of the service area behavioral health market share. This indicates that service area residents need behavioral health services, but travel outside of the service area and surrounding communities of Long Beach to receive these types of services

HOSPITAL BEHAVIORAL HEALTH MARKET SHARE: 2012-2014				
Hospital	2012	2013	2014	Trend
Community Hospital of Long Beach	18.3%	19.4%	22.9%	↗
College Medical Center	25.8%	23.1%	20.4%	↘
College Hospital	8.6%	9.5%	9.2%	↗
Del Amo Hospital	7.1%	7.5%	6.9%	↘
St. Mary Medical Center Long Beach	3.4%	3.8%	3.9%	↗
Los Alamitos Medical Center	1.8%	2.1%	2.5%	↗
College Hospital Costa Mesa	3.6%	2.7%	2.5%	↘
Tom Redgate Memorial Recovery Center	2.0%	1.3%	1.9%	↔
Kaiser Foundation Hospital - Los Angeles	1.3%	1.5%	1.8%	↗
Long Beach Memorial Medical Center	1.0%	1.3%	1.6%	↗
All Other	27.1%	27.8%	26.4%	↘
Subtotal	100.0%	100.0%	100.0%	
Total	3,354	3,544	3,267	↘

Note: Excludes normal newborns

Source: OSHPD Patient Discharge Database, 2012-2014

HOSPITAL MARKET SHARE FOR BEHAVIORAL HEALTH: 2014		
Hospital	Total Discharges	Market Share
Community Hospital of Long Beach	749	22.9%
College Medical Center	666	20.4%
College Hospital	300	9.2%
Del Amo Hospital	226	6.9%
St. Mary Medical Center Long Beach	128	3.9%
Los Alamitos Medical Center	83	2.5%
College Hospital Costa Mesa	82	2.5%
Tom Redgate Memorial Recovery Center	61	1.9%
Kaiser Foundation Hospital - Los Angeles	59	1.8%
Long Beach Memorial Medical Center	52	1.6%
Subtotal	2,406	73.6%
Other Hospitals	861	26.4%
Total	3,267	100.0%

Note: Excludes normal newborns

Source: OSHPD Patient Discharge Database

Inpatient Psychiatric Volume & Occupancy

- Between FY 2012 and FY 2016, the psychiatric occupancy rate at the area hospitals increased significantly from nearly 84% to approximately 89% despite the addition of 63 psychiatric beds at College Medical Center
- Without CHLB's 28 psychiatric beds, the occupancy rate at area hospitals would reach nearly 94%

BEHAVIORAL HEALTH UTILIZATION: FY 2012-2016								
Hospital	FY 2012				FY 2016			
	Licensed Psych Beds	Patient Days	Discharges	Occupancy	Licensed Psych Beds	Patient Days	Discharges	Occupancy
Community Hospital of Long Beach	28	7,928	1,437	77.4%	28	8,337	2,018	81.4%
College Medical Center ¹	73	22,788	3,532	85.3%	137	44,331	5,934	88.4%
Los Alamitos Medical Center ¹	25	6,900	394	75.4%	25	8,280	352	90.5%
La Casa Psychiatric Health Facility	16	5,693	88	97.2%	16	5,736	99	98.0%
Providence Little Company of Mary San Pedro ¹	25	7,210	574	78.8%	25	7,839	589	85.7%
College Hospital ¹	187	58,251	6,923	85.1%	187	62,636	6,054	91.5%
Del Amo Hospital ¹	111	32,406	4,912	79.8%	111	34,313	6,180	84.5%
LAC/Harbor UCLA Medical Center	39	13,221	795	92.6%	38	12,939	596	93.0%
Total	504	154,397	18,655	83.7%	567	184,411	21,822	88.9%

Source: OSHPD Annual Disclosure Reports, FY 2012-2016

¹ For FY 2016, data source is OSHPD Alerts Annual Utilization Reports. FY 2016 Disclosure Reports unavailable

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